

6-21-05

IFW

PATENT
94363CIPDIVDIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 1645

Examiner:

In re application of
Minden et al.

DIFFERENCE DETECTION METHODS
USING MATCHED MULTIPLE DYES

Serial No.: 10/713,861

Filing Date: November 14, 2003

Information Disclosure Statement

Pittsburgh, PA 15222
June 20, 2005

Mail Stop Amendments
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants, in accordance with their duty of disclosure pursuant to 37 C.F.R.
§ 1.56, hereby advise the United States Patent and Trademark Office ("USPTO") of the
references listed on the accompanying form PTO/SB/08B (substitute for 1449/PTO)
Information Disclosure Statement by Applicant.

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Date of Deposit June 20, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express
Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed
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The present application is a divisional application of U.S. Patent Application No. 10/137,180 filed 05/01/2002, which is a divisional application of U.S. Patent Application No. 09/370,743 filed 08/09/1999, issued as U.S. Patent No. 6,426,190, which is a continuation in part of U.S. Patent Application No. 08/425,480 filed 04/20/1995, issued as U.S. Patent No. 6,127,134. Pursuant to 37 C.F.R. § 1.98(d), applicants have not included copies of foreign patent documents and non-patent literature references disclosed in the applications from which the present application claims priority.

Applicants note that although the cited references may be relevant to the examination of the above-referenced application, under 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Applicants further note that the filing of this Information Disclosure Statement is not an admission that the references cited herein constitute prior art under 35 U.S.C. §§ 102-103 with respect to the captioned application.

Pursuant to 37 C.F.R. § 1.97(b)(3), Applicants submit that no fee is necessary for consideration of this Information Disclosure Statement. Nevertheless, the Commissioner is hereby authorized to charge any additionally required fees deemed necessary for consideration of this Information Disclosure Statement to Account No. 11-1110.

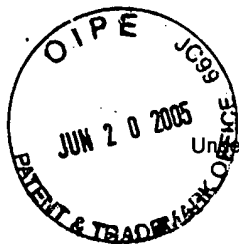
Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J. Kent', is written over a horizontal line.

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Registration No. 54,216

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PTO/SB/08A (08-03)

Approved for use through 7/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/713,861
				Filing Date	11/14/2003
				First Named Inventor	Minden, J.
				Art Unit	1645
				Examiner Name	
Sheet	1	of	8	Attorney Docket Number	94363CIPDIVDIV

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		6,426,190	07-30-2002	Minden et al.	
		6,225,050	05-01-2001	Waggoner	
		6,127,134	10-03-2000	Minden et al.	
		6,048,982	04-11-2000	Waggoner	
		6,043,025	03-28-2000	Minden et al.	
		5,654,419	08-05-1997	Mathies et al.	
		5,627,027	05-06-1997	Waggoner	
		5,569,587	10-29-1996	Waggoner	
		5,512,486	04-30-1996	Giese et al.	
		5,364,764	12-15-1994	Haugland et al.	
		5,338,854	08-16-1994	Kang et al.	
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		5,274,113	12-28-1993	Kang et al.	
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		4,874,492	10-17-1989	Mackay	
		4,855,225	08-08-1989	Fung et al.	
		4,774,339	09-27-1988	Haugland et al.	
Examiner Signature				Date Considered	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP 5,322,770A English Abstract	09-03-1994	Toyobo Co. Ltd.		
		JP 5,322,771A English Translation	09-03-1994	Toyobo Co. Ltd.		
		EP 0 504 943A	09-23-1992	Hitachi Software Eng.		
		EP 0 272 007 A2	06-22-1988	Applied Biosystems		
		WO 96/33406	10-24-1996	Carnegie Mellon University		
		WO 94/17397	08-04-1994	University of California		
		WO 92/14747	03-09-1992	Astromed Ltd.		

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Amersham Life Science Products Catalogue (1991) page 61, Illinois, USA "Rainbow Protein Molecular Weight Markers."	
		Amersham Pharmacia Biotech "BioDirectory '99" catalogue, section entitled "Chromatographic Columns and Media," pp. 502-588 (1999)	
		Opiteck et al., "Comprehensive On-Line LC/LC/MS of Proteins," Anal. Chem., vol. 69, pp 1518-1524 (1997).	
		Opiteck et al., "Comprehensive Two-Dimensional High Performance Liquid Chromatography for the Isolation of Overexpressed Proteins and Proteome Mapping," Anal. Biochem., vol. 258, pp 349-361 (1998).	
		Jensen et al., "Probing Proteomes Using Capillary Isoelectric Focussing-Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry," Anal. Chem. Vol. 71, pp 2076-2084 (1999).	
		Wilchek, M. and Bayer, E.A., "Labelling Glycoconjugates with Hydrazide Reagents," Methods in Enzymology, vol. 138, pp 429-442 (1987).	
		Mujumdar, R.B. et al., "Cyanine Dye Labelling Reagents Containing Isothiocyanate Groups," Cytometry, vol. 10, pp 11-19 (1989).	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Chasman, D.I. et al., "Activation of Yeast Polymerase II Transcription by Herpesvirus VP16 and GAL4 Derivatives <i>In Vitro</i> ," Molecular and Cellular Biology, vol. 9, no. 11, pp 4746-4789 (1989).	
		Letter to the Editor, "HBL-100 Cells Do Not Secrete Casein and Lack Prolactin and Estradiol Receptors," <i>In Vitro</i> Cell Dev. Biol., vol. 26, pp 933-935, (1990).	
		Opiteck et al., "Two Dimensional SEC/RPLC Coupled to Mass Spectrometry for the Analysis of Peptides," Anal. Chem. Vol. 69, pp 2283-2291, (1997).	
		Lasfarques et al. "Isolation of Two Human Tumor Epithelial Cell Lines from Solid Breast Carcinomas," J. Natl. Cancer Inst., vol. 61, no. 4, pp 967-973, (1978).	
		Bhargava et al., "Phosphorylation of Parathyroid Secretory Protein," Proc. Natl. Acad. Sci., vol. 80, pp 878-881, (1983).	
		Wayne F. Patton, "A Thousand Points of Light: The Application of Fluorescence Detection Technologies to Two-dimensional Gel Electrophoresis and Proteomics," Electrophoresis, vol. 21, pp 1123-1144 (2000).	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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		Juan F. Santaren et al., "Identification of Drosophila Wing Imaginal Disc Proteins by Two Dimensional Gel Analysis and Microsequencing," Experimental Cell Research 206, pp 220-226, (1993).	
		James I. Garrels, "Two-Dimensional Gel Electrophoresis and Computer Analysis of Proteins Synthesized by Clonal Cell Lines," Journal of Biological Chemistry, vol. 254, no. 16, pp 7961-7973, (1979).	
		Peter Jackson et al., "Rapid Imaging, Using a Cooled Charged-Coupled-Device of Fluorescent Two-dimensional Polyacrylamide Gels Produced by Labeling Proteins in the First Dimensional Isoelectric Focusing Gel with the Fluorophore 2-methoxy-2,4'-diphenyl-3 (2H) furanone," Electrophoresis, vol. 9, pp 330-339, (1988).	
		Patrick H. O'Farrell, High Resolution Two Dimensional Electrophoresis of Proteins," Journal of Biological Chemistry, vol. 250, no. 10, pp 4007-4021, (1975).	

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		Valerie E. Urwin et al., "A Multiple High Resolution Mini-Two Dimensional Polyacrylamide Gel Electrophoresis System: Imaging Two-Dimensional Gels using a Cooled Charged-Coupled Device After Staining with Silver of Labeling with Fluorophore," Analytical Biochemistry, vol. 195, pp 30-37, (1991).	
		Richard P. Haughland, "Handbook of Fluorescent Probes and Research Chemicals," 5th Edition, pp 203-214, 1992-1994.	
		R.F. Steiner (Ed), "Excited States of Biopolymers," Plenum Press, New York, pp 29-58, (1983).	
		U.K. Laemmli, "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," Nature vol. 227, pp 680-685, (1970).	
		Biological Detection Systems Inc., "FluoroLink-Ab tm Cy5 tm Labeling Kit" 1995 Cat. No. A35000.	
		Biological Detection Systems Inc., "FluoroLink-Ab tm Cy3.5 tm Labeling Kit"	
		Biological Detection Systems Inc., "FluoroLink-Ab tm Cy3 tm Labeling Kit"	
		Biological Detection Systems Inc., "FluoroLink-Ab tm Cy2 tm Labeling Kit"	

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		Biological Detection Systems, Inc. "Fluorolink Labeling Reagents" (1999).	
		Molecular Probes Inc., "Conjugation with Amine-Reactive Probes," Product Information Sheet. (1999).	
		Molecular Probes Inc., "Conjugation with Thiol-Reactive Probes," Product Information Sheet	
		Sothwick P.L. et al., "Cyanine Dye Labeling Reagents-Carboxymethylindocyanine Succinimidyl Esters", Cytometry, vol. 11, pp 418-430, (1990).	
		Lansing Taylor D. et al., "The New Vision of Light Microscopy. Lasers, Electronics Cameras and Digital Image analysis Combined with the Most Venerable Instrument of the Life Sciences to Create New Ways of Seeing Living Cells," American Scientist, New Haven, CT, vol. 80, no. 4, pp 322-325, (1992).	
		L.M. Smith et al., "Florescence Detection in Automated DNA Sequence Analysis," Nature vol. 321. pp 674-678, (1986).	
		Unlu et al., "Difference Gel Electrophoresis: A Single Gel Method for Detecting Changes in Protein Extracts," Electrophoresis, vol. 18, pp 2071-2077, (1997).	

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		Chang, J.Y., et al., "A New Method for the Selective Isolation of Cystein-containing Peptides. Specific Labelling of the Thiol Group with a Hydrophobic Chromophore," Biochem. J., vol. 211, no. 1, pp 163-171, (1983).	
		Due, C., et al., "Analysis of Insulin Receptors on Heterogeneous Eukaryotic Cell Populations with Fluorochrome-conjugated Insulin and Fluorescence-activated Cell Sorter. Advantages and Limitations to the ¹²⁵ I-labelled Insulin Methodology," Diabetologia vol. 28, pp. 749 – 755, (1985).	

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